

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Andrew Graham et al.

JC14 Rec'd PTO 29 APR 2005

Serial No.: Unknown

(Priority Application No. DE 102 50 868.2)

(International Application No. PCT/DE03/003587)

Filed: Herewith

(Priority Date: October 31, 2002)

(International Filing Date: October 29, 2003)

Docket No.: I432.116.101/P29858

Title: VERTICALLY INTEGRATED COMPONENT, COMPONENT ARRAY  
AND METHOD FOR FABRICATING (As Amended)**INFORMATION DISCLOSURE STATEMENT**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached form 1449 be considered by the Examiner and made of record. Any required copies of patents, publications or other documents are enclosed for the Examiner's review. Pursuant to the provisions of M.P.E.P. 609, Applicants further request a copy of the 1449 form, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Since this Information Disclosure Statement is being submitted within three months of filing national application; or date of entry of national application; or before the mailing date of the first Office Action on the merits, a fee has not been enclosed. However, if such fee is required, the Patent Office is hereby authorized to charge Deposit Account No. 500471 for fees as set forth under 37 C.F.R. 1.17(p).

**Information Disclosure Statement**

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Applicants respectfully request consideration of these references during prosecution of the above-identified matter. The Examiner is invited to contact the Applicants' representative at the below-listed telephone number if there are any questions regarding this Communication or the tendered references.

Respectfully submitted,

Andrew Graham et al.,

By their attorneys,

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Dated: 4/29/05

PPK:cmj

  
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**CERTIFICATE UNDER 37 C.F.R. 1.10:**

"Express Mail" mailing label number: EV525783320US

Date of Deposit: April 29, 2005

The undersigned hereby certifies that this paper or papers, as described herein, are being deposited in the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By   
Name: Vanessa Carels

|                                                                                           |                                                                                      |                                                                                                                   |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| FORM PTO-1449                                                                             | Docket No.:<br>1432.116.101/P29858                                                   | Serial No. <b>10/533550</b><br>Unknown<br>Priority Appln. No. DE 102 50 868.2<br>Int'l Appln. No. PCT/DE03/003587 |
|                                                                                           | LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S<br>INFORMATION DISCLOSURE STATEMENT |                                                                                                                   |
| Applicant: Andrew Graham et al.                                                           |                                                                                      |                                                                                                                   |
| Filing Date: Herewith<br>Priority Date: Oct. 31, 2002<br>Int'l Filing Date: Oct. 29, 2003 |                                                                                      | Group Art:                                                                                                        |

## U.S. PATENT DOCUMENTS

| Examiner<br>Initial | Document No. | Date   | Name          | Class | Sub Class | Filing Date<br>If Appropriate |
|---------------------|--------------|--------|---------------|-------|-----------|-------------------------------|
|                     | 5,106,778    | 4/1992 | Hollis et al. |       |           |                               |
|                     | 5,612,563    | 3/1997 | Fitch et al.  |       |           |                               |
|                     | 2002/0001905 | 1/2002 | Choi et al.   |       |           |                               |
|                     |              |        |               |       |           |                               |
|                     |              |        |               |       |           |                               |
|                     |              |        |               |       |           |                               |

## FOREIGN PATENT DOCUMENTS

|  | Document No. | Date    | Country | Class | Sub Class | Translated<br>Yes No     |
|--|--------------|---------|---------|-------|-----------|--------------------------|
|  | 100 36 897   | 1/2002  | DE      |       |           | No (Equivalent included) |
|  | 0 452 950    | 10/1991 | EP      |       |           | Yes                      |
|  | WO 01/57917  | 8/2001  | PCT     |       |           | Yes                      |
|  | WO 01/61753  | 8/2001  | PCT     |       |           | No (Equivalent included) |
|  | WO 03/026034 | 3/2003  | PCT     |       |           | No (Translated Abstract) |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |                                                                                                                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Choi, Won Bong et al., "Ultrahigh-Density Nanotransistors by Using Selective Grown Vertical Carbon Nanotubes," American Institute of Physics, Applied Physics Letters, Vol. 79, No. 22, pp. 3696-3698, (November 26, 2001). |
|  | Derycke, V. et al, "Carbon Nanotube Inter- and Intramolecular Logic Gates," American Chemical Society, Nano Letters, Vol. 1, No. 9, pp. 453-456, (November 26, 2001).                                                       |
|  | Harris, Peter J. F., "Carbon Nanotubes and Related Structures," Cambridge University Press, pp. 1-15 and 111-155 (1999).                                                                                                    |
|  | Huang, Yu et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks," Science, Vol. 294, pp. 1313-1317, (November 9, 2001).                                                                              |
|  | Johnson, Justin C. et al., "Single Nanowire Lasers," J. Phys. Chem. B, pp. Est. 3-6, (November 26, 2001).                                                                                                                   |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.